



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,101	11/18/2003	Robert H. Breeden	6-3714	6129

7590  
Thomas Hooker, Esq.  
Hooker & Habib, P.C.  
Suite 304  
100 Chestnut Street  
Harrisburg, PA 17101

10/10/2007

EXAMINER
----------

FRANTZ, JESSICA L

ART UNIT	PAPER NUMBER
----------	--------------

3746

MAIL DATE	DELIVERY MODE
-----------	---------------

10/10/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Interview Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/716,101	BREEDEN, ROBERT H.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jessica L. Frantz	3746	

All participants (applicant, applicant's representative, PTO personnel):

- (1) Jessica L. Frantz. (3) Thomas Hooker.  
 (2) Anthony Stashick. (4) \_\_\_\_\_.

Date of Interview: 02 October 2007.

Type: a) ☒ Telephonic b) ☐ Video Conference  
 c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.  
 If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 1, 15 and 19.

Identification of prior art discussed: Barkhimer et al. US 5,752,689.

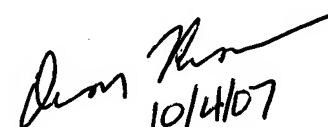
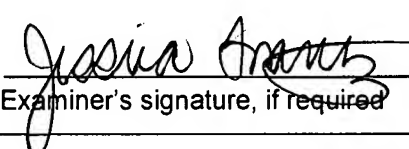
Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

  
 10/4/07  
  
 Examiner's signature, if required

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Examiner suggested that in regards to Applicant's proposed amendments to the method claims (claims 19-21), the newly proposed amendments read over the currently applied art. Participants also discussed the apparatus claims with specific attention to the newly proposed limitation "ECM for generating digital on-off signals." A disagreement between what the previously applied Barkhimer et al. patent (US 5,752,689) taught was discussed. Examiner suggested that even if Barkhimer could not be construed to teach delivery of digital signals to the valve, it would be obvious to one of ordinary skill in the art to recognize various equivalents (i.e. voltage signal, current signal, pressure signal etc) for the proposed claim limitation "digital signals".